

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
3 June 2004 (03.06.2004)

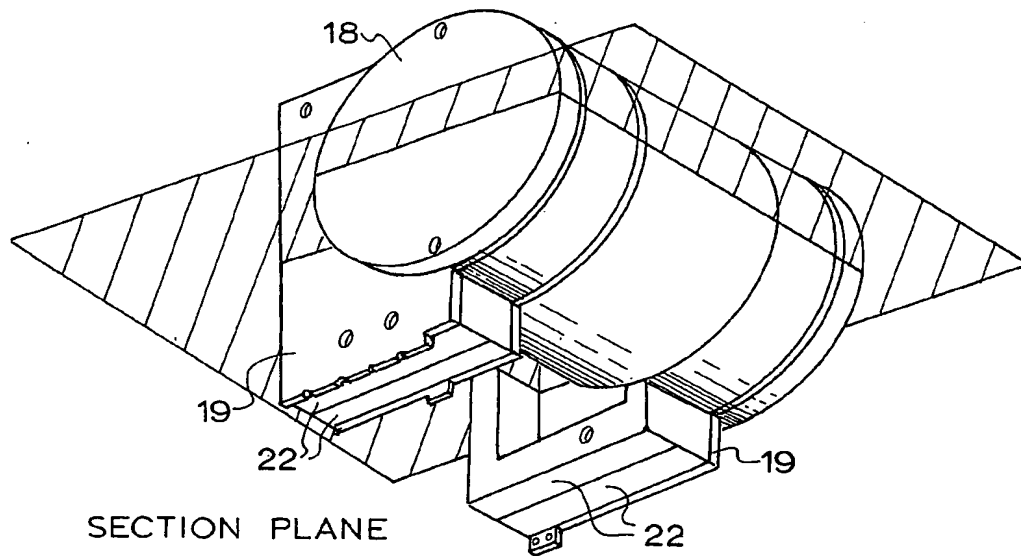
PCT

(10) International Publication Number  
WO 2004/047281 A1

- (51) International Patent Classification<sup>7</sup>: H02N 2/18, H02K 35/04
- (21) International Application Number: PCT/AU2003/001523
- (22) International Filing Date: 17 November 2003 (17.11.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 2002952790 18 November 2002 (18.11.2002) AU
- (71) Applicant (for all designated States except US): MICROTECHNOLOGY CENTRE MANAGEMENT LIMITED [AU/AU]; William St, Hawthorn, Victoria 3122 (AU).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): CAP, George, Jaroslav [AU/AU]; Griffith University Kessels Road, Nathan, Queensland 4111 (AU).
- (74) Agent: MISCHLEWSKI, Darryl; P.O. Box 1254, Camberwell, Victoria 3124 (AU).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SI, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:  
— with international search report

[Continued on next page]

(54) Title: MOTION ACTIVATED POWER SOURCE



(57) Abstract: An electrical generator or motion sensor including a) a pair of elongated L shaped supports (15) fixed at one end but free to move at the other b) a coil (14) secured to the supports remote from the fixed end c) an array of permanent magnets (12) arranged adjacent the coil such that movement of the coil through the magnetic field induces an electric current in the coil. To rectify the current the supports are made of a piezoelectric polymer membrane so that movement of the coil stresses the membrane to generate a voltage that is used to turn on a MOSFET transistor rectifier.

WO 2004/047281 A1